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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/771,333	02/05/2004	Yin-Chun Huang	4425-346	3934	
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LOWE HAUPTMAN GILMAN & BERNER, LLP 1700 Diagonal Road, Suite 310			SUN, XIUQIN		
Alexandria, VA			ART UNIT	PAPER NUMBER	
			2863		
			DATE MAILED: 10/26/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner		Application No.	Applicant(s)		$\overline{}$				
Number N		10/771,333	HUANG ET AL.		M				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address → Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of the many be writing to large the provided with apply and will expire SIX (8) MONTHS from the material size of the provided will apply and will expire SIX (8) MONTHS from the material date of this communication. Failure to provide will be selected period for several provided by the selected period for several provided will be selected period for several provided	Office Action Summary	Examiner	Art Unit						
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Art Unit: 2863

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-5 and 16-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kawanaka et al. (U.S. Pub. No. 20030150724) in view of Ueno et al. (U.S. Pub. No. 20020133064).

In regard to claim 1:

Kawanaka et al. teach a method for determining the resolution of blood glucose, comprises: obtaining an analog signal source from a blood glucose solution being applied to an amplifier circuit which includes a reference resistance (Figs. 1 and 16; and sections 0092-0094); transforming said analog signal source into a digital signal (Figs. 1 and 16; and sections 0092-0094).

Kawanaka et al. do not mention explicitly: transmitting said digital signal with a rising curve to obtain an approximate local maximum value of said rising curve; and determining said resolution of blood glucose according to said approximate local maximum value.

Ueno et al. teach a method and system for determining blood sugar level (Figs. 2 and 18), including the steps of: transmitting out said digital signal with a rising curve to

obtain an approximate local maximum value of said rising curve (Figs. 5 and 6; and sections 0062 and 0063); and determining said resolution of blood glucose according to said approximate local maximum value(sections 0063).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include the teaching of Ueno et al. in the invention of Kawanaka et al. in order to implement a more precise blood glucose concentration measuring device having higher measurement accuracy (Ueno et al., sections 0011 and 0064).

In regard to claims 2-4:

The teaching of Kawanaka et al. further includes: said analog signal source is generated at least in part, in response to application of the blood glucose solution on a test strip having a catalyst (sections 0002 and 0003); said analog signal source is generated at least in part, on an oxidation reduction reaction occurring in response to said application of said test strip (sections 0005, 0006, and 0104); said transforming said analog signal source includes transmitting said analog signal source through an analog front end (AFE) (Figs. 1 and 16).

In regard to claim 5:

Kawanaka et al. teach the claimed invention except: said approximate local maximum value being the difference between a first time (t1) and an initial time (to) and said difference being larger than zero.

The teaching of Ueno et al. further includes: said approximate local maximum value being the difference between a first time (t1) and the initial time (t0) and said difference being larger than zero (Figs. 5 and 6; and sections 0062 and 0063);

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include the teaching of Ueno et al. in the invention of Kawanaka et al. in order to implement a more precise blood glucose concentration measuring device having higher measurement accuracy (Ueno et al., sections 0011 and 0064).

In regard to claim 16:

The teaching of Kawanaka et al. further includes: providing a blood glucose solution for reaction on a test strip having an enzyme to produce an analog signal source (Figs. 1 and 16; and sections 0092-0094); transmitting said analog signal source into a measurement circuit (Figs. 1 and 16; and sections 0092-0094); transforming said analog signal source into a digital signal (Figs. 1 and 16; and sections 0092-0094); and making a mapping table of said approximate local maximum value and an outputted voltage (sections 0092-0094).

Kawanaka et al. do not mention explicitly: outputting said digital signal with a rising curve; determining an approximate local maximum value of said of said rising curve.

Ueno et al. teach a method and system for determining blood sugar level (Figs. 2 and 18), including the steps of: outputting said digital signal with a rising curve (Figs. 5 and 6; and sections 0062 and 0063); determining an approximate local maximum value of said of said rising curve; (Figs. 5 and 6; and sections 0062 and 0063).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include the teaching of Ueno et al. in the invention of Kawanaka

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et al. in order to implement a more precise blood glucose concentration measuring device having higher measurement accuracy (Ueno et al., sections 0011 and 0064).

In regard to claims 17 and 18:

The teaching of Kawanaka et al. further includes: producing said analog signal source at least in part in response to an oxidation reduction reaction (sections 0005, 0006, and 0104); said transforming said analog signal source further comprises transmitting said analog signal source through an analog front end (AFE) (Figs. 1 and 16).

In regard to claims 19-22:

The teaching of Kawanaka et al. further includes: said measuring circuit includes a resistance (Fig.1 and 16; and sections 0092-0094); said measuring circuit includes a reference resistance (Fig.1 and 16; and sections 0092-0094); said measuring circuit includes a reference voltage (Fig.1 and 16; sections 0092-0094); said outputted voltage is determined by said reference voltage (Fig.1 and 16; sections 0092-0094).

Allowable Subject Matter

- 3. Claims 6 and 7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. Claims 8-15 are allowed.

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Reasons for Allowance

5. The following is an examiner's statement of reasons for allowance:

The primary reason for the allowance of claim 6 is the inclusion of the limitation of determining an average peak value of a plurality of said approximate local maximum values after a pre-setting sampling time. It is this limitation found in the claim, as it is claimed in the combination that has not been found, taught or suggested by the prior art of record, which makes this claim allowable over the prior art.

The primary reason for the allowance of claim 7 is the inclusion of the limitation of providing a mapping table of an outputted voltage and a plurality of approximate local maximum values from a plurality of said rising curves. It is this limitation found in the claim, as it is claimed in the combination that has not been found, taught or suggested by the prior art of record, which makes this claim allowable over the prior art.

The primary reason for the allowance of claims 8-15 is the inclusion of the method steps of: determining an average peak value at an approximate local maximum peak point of said rising curve after a pre-setting sampling time; and determining said resolution of blood glucose according to said average peak value. It is these steps found in each of the claims, as they are claimed in the combination that have not been found, taught or suggested by the prior art of record, which make these claims allowable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance.

Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Response to Arguments

7. Applicant's arguments filed 08/09/2005 have been fully considered but they are not persuasive.

Claims 1-5 and 16-22 are rejected as new grounds have been found from the Ueno reference (U.S. Pub. No. 20020133064) to teach the limitation argued by the Applicant. Detailed response is given in section 3 as set forth above in this Office Action.

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Contact Information

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Xiuqin Sun whose telephone number is (571)272-2280. The examiner can normally be reached on 6:30am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on (571)272-2269. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Xiugin Sun Examiner Art Unit 2863

October 24,

BRYAN BUI